



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010479
CERTIFICATION DATE: February 19, 2014
DATE RECERTIFICATION DUE: August 18, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of $k=3$. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.

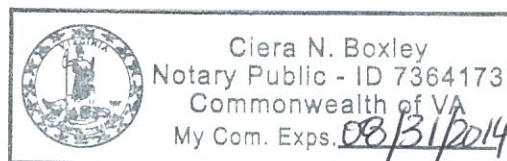
Sarah E. Dersch
Forensic Scientist

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 28th day of February, 2014 by Sarah E. Dersch

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 2/24/2014

HMS
Feb

Instrument Serial Number: 010479

As of 24-Feb-14

Maintenance Date	Certification Date	Technician Initials	Remarks
19-Feb-14	19-Feb-14	HMS (18910)	CERTIFIED, REPLACED DRY GAS STANDARD.
04-Sep-13	04-Sep-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
27-Mar-13	27-Mar-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
09-Oct-12	09-Oct-12	TLN (25387)	CERTIFIED
25-Apr-12	25-Apr-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
01-Nov-11	01-Nov-11	DBH (21250)	CERTIFIED
15-Jul-10	15-Jul-10	SED (24178)	CALIBRATED AND CERTIFIED.
15-Jul-10	15-Jul-10	SED (24178)	CALIBRATED AND CERTIFIED.
22-Oct-09	22-Oct-09	SED (24178)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
09-Feb-09	09-Feb-09	DBH (21250)	CALIBRATED, CERTIFIED AND ACCEPTED.

HHS
Snel

INTOX EC/IR II

Quality Assurance Worksheet

Instrument Serial Number 010479 Worksheet Start Date 2/19/2014

Location Lee County

Address 33640 Main St., Jonesville, VA 24263

DFS Technician Heather Stanton License No. 18910

☐ Laboratory

☒ On-Site

Site Specification: No detrimental environmental conditions exist. ☒

Instrument Barometer (mm HG) 715 Reference Barometer (mm HG) 719

Reference Barometer(RB)Serial # 009113 RB Calibration Due 5/8/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.283
0.300	0.283	0.274	0.291	Sample 2	0.283
Precision		sample min	sample max	Sample 3	0.282
0.001		0.282	0.283		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.093
0.100	0.094	0.091	0.097	Sample 2	0.093
Precision		sample min	sample max	Sample 3	0.093
0		0.093	0.093		

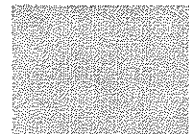
Dry gas standard Lot No. (with tank no.) AG400202-31

☒ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010479

Certification Date

2/19/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.233
0.250	0.235	0.227	0.242	Sample 2	0.233
Precision		sample min	sample max	Sample 3	0.232
0.001		0.232	0.233		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.140
0.150	0.141	0.136	0.145	Sample 2	0.140
Precision		sample min	sample max	Sample 3	0.140
0		0.140	0.140		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.074
0.080	0.075	0.072	0.078	Sample 2	0.074
Precision		sample min	sample max	Sample 3	0.074
0		0.074	0.074		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.018
0.020	0.019	0.016	0.022	Sample 2	0.018
Precision		sample min	sample max	Sample 3	0.018
0		0.018	0.018		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

DFS Technician

Heath W. Stark

Date

2/24/14

Issuing Analyst

ged

Date

2/27/14

HMS
sd

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010479 Test Number: 295
Test Date: 02/19/2014 Test Time: 08:28 EST

Technician Initials: HMS

Dry Gas Target: 0.235

Lot Number: 0771325014-02 Exp Date: 05/01/2015

Tank Pressure: 683 psi Barometric Pressure: 715 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:28
BLK	0.000	08:29
CHK	0.233	08:30
BLK	0.000	08:31
CHK	0.233	08:32
BLK	0.000	08:34
CHK	0.232	08:35
BLK	0.000	08:36

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
Sul

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010479 Test Number: 296
Test Date: 02/19/2014 Test Time: 08:38 EST

Technician Initials: HMS

Dry Gas Target: 0.141

Lot Number: 2951215012-02 Exp Date: 11/01/2014
Tank Pressure: 159 psi Barometric Pressure: 715 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:38
BLK	0.000	08:39
CHK	0.140	08:40
BLK	0.000	08:41
CHK	0.140	08:42
BLK	0.000	08:43
CHK	0.140	08:44
BLK	0.000	08:45

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Handwritten initials/signature

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010479 Test Number: 297
Test Date: 02/19/2014 Test Time: 08:48 EST

Technician Initials: HMS

Dry Gas Target: 0.075

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 262 psi Barometric Pressure: 716 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:48
BLK	0.000	08:49
CHK	0.074	08:49
BLK	0.000	08:51
CHK	0.074	08:52
BLK	0.000	08:53
CHK	0.074	08:54
BLK	0.000	08:55

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
suc

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010479 Test Number: 298
Test Date: 02/19/2014 Test Time: 08:56 EST

Technician Initials: HMS

Dry Gas Target: 0.019

Lot Number: 0771302011-04 Exp Date: 05/01/2015

Tank Pressure: 257 psi Barometric Pressure: 716 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	08:57
BLK	0.000	08:57
CHK	0.018	08:58
BLK	0.000	08:59
CHK	0.018	09:00
BLK	0.000	09:01
CHK	0.018	09:02
BLK	0.000	09:03

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS
Sed

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010479 Test Number: 299

Test Date: 02/19/2014 Test Time: 09:06 EST

Dry Gas Target: 0.283

Lot Number: AG322702-08 Exp Date: 08/15/2015

Tank Pressure: 75 psi Barometric Pressure: 716 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:07
CHK	0.283	09:07
BLK	0.000	09:09
CHK	0.283	09:10
BLK	0.000	09:12
CHK	0.282	09:13

Test Status: *Success*

Calibration CRC: AD9E7DE6

the
gnd

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010479 Test Number: 300

Test Date: 02/19/2014 Test Time: 09:16 EST

Dry Gas Target: 0.094

Lot Number: AG400202-31 Exp Date: 01/02/2016

Tank Pressure: 1115 psi Barometric Pressure: 716 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	09:16
CHK	0.093	09:17
BLK	0.000	09:19
CHK	0.093	09:19
BLK	0.000	09:21
CHK	0.093	09:22

Test Status: *Success*

Calibration CRC: AD9E7DE6

Handwritten initials: HNS and SD




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY STANTON, HEATHER, M		AGENCY DFS Central Lab
DFS LICENSE NUMBER 18910	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 02/19/2014
TEST EQUIPMENT NUMBER 010479		

RESULTS: TIME SAMPLE TAKEN **09:29 EST**

SAMPLE'S ALCOHOL CONTENT **0.00** GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE

FOR COURT



IntoxNet MIS Report

Report Generated 24 Feb 2014 at 08:46

Handwritten initials: HMS sed

Test Results

Instrument Serial Number 010479

Test # 000301 Subject Test

Test Location 1 Department of
Test Date 19 Feb 2014

Test Location 2 Forensic Science
Test Time 09:23
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 19 Feb 2014 End Time 09:31

Result Time 09:29

Result Date 19 Feb 2014

Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 09:23

Data Type BLK

Sample Value 0.000

Sample Time 09:24

Data Type CHK

Sample Value 0.093

Sample Time 09:25

Data Type BLK

Sample Value 0.000

Sample Time 09:26

Data Type SUBJ

Sample Value 0.000

Sample Time 09:27

Data Type BLK

Sample Value 0.000

Sample Time 09:28

Data Type SUBJ

Sample Value 0.000

Sample Time 09:29

Data Type BLK

Sample Value 0.000

Sample Time 09:30

Standard Type Dry Gas Std

Standard Value 0.094

Standard Lot Number AG400202-31

Standard Expiration Date 01/02/2016

Tank Pressure 1115

Barometric Pressure 716 mmHg

Blow Sample Number 1 Blow Duration 3.22 sec

Blow Volume 1807 cc End-of-Blow Time 09:27

Blow Sample Number 2 Blow Duration 3.29 sec

Blow Volume 1798 cc End-of-Blow Time 09:29

Tamper Evident Stamp f99cd6a9

Test Status Code 0

Test Status Success